| Inde | ex of C | laims |  |
|------|---------|-------|--|
|      |         |       |  |

| App | lication | /Contro | i No. |
|-----|----------|---------|-------|

10/617,171

Examiner

Tianjie Chen

Applicant(s)/Patent under Reexamination

JEONG, KI-TAG

Art Unit

2656

| √  | Rejected |
|----|----------|
| 11 | Allowed  |

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| Ν | Non-Elected  |
|---|--------------|
| ı | Interference |

| Α | Appeal   |
|---|----------|
| 0 | Objected |

| Cla   | aim      | Date     |          |          |          |          | 1         | Claim Date |                 |           |  |       |          |          |                      | CI     | aim               | Date            |          |               |   |         |          |          |          |          |        |        |          |          |        |           |
|-------|----------|----------|----------|----------|----------|----------|-----------|------------|-----------------|-----------|--|-------|----------|----------|----------------------|--------|-------------------|-----------------|----------|---------------|---|---------|----------|----------|----------|----------|--------|--------|----------|----------|--------|-----------|
|       |          |          |          |          |          |          |           |            | $\dashv$        |           |  |       |          |          |                      |        |                   |                 |          | П             |   | 1       | ٦        |          |          | $\neg$   |        | ᅥ      |          |          |        |           |
| Final | Original | 2/2/06   |          |          |          |          |           |            |                 |           |  | Final | Original |          |                      |        |                   |                 |          |               |   | Final   | Original | :        |          |          |        | ,      |          |          |        |           |
|       | 1        | R        |          | +        | +        |          | 7         | 寸          | _               | ╗         |  |       | 51       | $\dashv$ | +                    | 十      |                   | 7               | 十        | ╅             |   |         | 101      |          | $\Box$   | $\neg$   |        | $\neg$ |          | 一        |        | $\neg$    |
|       | 2        | R        | $\Box$   | 十        | 十        |          | 寸         | 寸          | _               | ᅥ         |  |       | 52       |          |                      | +      | Ħ                 | T               |          | 1             |   |         | 102      | Н        |          | T        |        | ┪      | $\dashv$ | _        | $\neg$ | ᅦ         |
| -     | 3        | R        |          | _        | +        | +        | _         | 寸          | $\neg$          | ᅱ         |  |       | 53       |          | $\neg$               | ╅      | 1                 |                 | $\top$   | +             |   |         | 103      | Н        | $\Box$   |          |        |        | $\neg$   |          |        | ᅥ         |
|       | 4        | R        | $\Box$   | 1        | $\top$   | $\top$   | 十         | 寸          | $\dashv$        | ╗         |  |       | 54       |          | _                    | ╅      | 1                 |                 | 1        | 1             |   |         | 104      | П        |          | _        |        |        |          |          |        | ᅱ         |
|       | 5        | R        |          | $\dashv$ | $\top$   | $\top$   | $\dashv$  | $\dashv$   | $\dashv$        | ヿ         |  |       | 55       |          | $\top$               | $\top$ |                   | $\neg$          | $\top$   | 1             | 1 |         | 105      | П        |          | $\neg$   |        | 一      | $\dashv$ | 一        | 一      | $\dashv$  |
|       | 6        | R        | $\Box$   | $\dashv$ | $\top$   | _        | 十         | 寸          | 1               | ╛         |  |       | 56       |          | $\top$               | ╅      | 11                | $\dashv$        |          | +             | 1 |         | 106      | П        |          |          |        |        |          | $\neg$   |        | ᅥ         |
|       | 7        | R        |          | T        | 十        | 1        | T         | T          | T               | 7         |  |       | 57       |          | 1                    | T      | 11                | T               |          | 1             |   |         | 107      | П        |          |          |        |        |          | 一        |        | ᅱ         |
|       | 8        | R        | m        | 7        | $\dashv$ | 1        | _         | 寸          | 7               | ╗         |  |       | 58       |          | $\top$               | $\top$ | $\Box$            |                 | _        | 1             | 1 |         | 108      | П        |          |          |        |        |          | $\neg$   |        | ᅱ         |
|       | 9        | R        |          |          | _        |          | 1         | 寸          | T               | 7         |  |       | 59       |          |                      | 1      | $\Box$            |                 |          |               | 1 |         | 109      |          |          | $\neg$   |        |        |          |          |        | $\neg$    |
|       | 10       | R        |          | 1        | T        | T        | 寸         | T          | T               | ᅦ         |  |       | 60       | İ        | $\top$               | 十二     | $\top$            | $\neg$          |          | $\top$        |   |         | 110      |          |          | ヿ        |        | $\neg$ | $\neg$   | $\neg$   | $\neg$ | $\neg$    |
|       | 11       | R        | İ        | T        | $\dashv$ | $\top$   | $\dashv$  |            |                 | T         |  |       | 61       |          |                      |        | $\sqcap$          |                 | $\neg$   |               | 1 |         | 111      |          |          | ヿ        | $\neg$ |        |          |          |        | ᅵ         |
|       | 12       | R        | $\Box$   | $\dashv$ | $\top$   | $\top$   | $\dashv$  | _          | 丁               | ┪         |  |       | 62       | $\Box$   | 十                    | $\top$ | $\top$            | 十               | $\neg$   | 1             | 1 |         | 112      | П        | П        | $\dashv$ | $\neg$ |        | $\neg$   | $\neg$   | T      | $\neg$    |
|       | 13       | R        |          | _        | $\top$   | $\top$   | $\forall$ | T          | 寸               | ┪         |  |       | 63       | $\Box$   | $\top$               | Ť      | $\dagger \dagger$ | $\top$          |          |               |   |         | 113      |          |          | $\neg$   |        |        |          |          |        | $\neg$    |
|       | 14       | R        |          | $\dashv$ | $\top$   | _        | $\top$    |            | 十               | $\dashv$  |  |       | 64       |          | $\neg$               | $\top$ | $\dagger \exists$ | $\dashv$        | $\top$   |               | 1 |         | 114      |          | H        |          |        | $\neg$ |          | $\dashv$ |        |           |
|       | 15       | R        |          | T        | T        | 十        | T         | Ť          | T               | $\neg$    |  |       | 65       |          | T                    | $\top$ | $\Box$            | 一               | 十        | $\top$        | 1 |         | 115      |          | П        | 寸        |        |        |          | $\dashv$ |        | $\neg$    |
|       | 16       | R        | $\Box$   | $\top$   | 十        | $\top$   | ┪         | $\neg$     | $\top$          | $\dashv$  |  |       | 66       | $\sqcap$ | $\neg$               | $\top$ | $\sqcap$          | 十               | +        | $\top$        | 1 |         | 116      | П        | П        | 一        | $\neg$ | $\neg$ |          | $\dashv$ |        | $\neg$    |
|       | 17       | R        |          | 1        | 十        | 十        | T         | T          | ╅               | $\neg$    |  |       | 67       |          |                      | $\top$ | $\Box$            | $\neg$          | $\neg$   | $\top$        | 1 |         | 117      |          | П        |          |        | $\neg$ |          |          |        | $\neg$    |
|       | 18       | R        |          |          | 1        | T        | T         | T          | $\dashv$        |           |  |       | 68       |          | T                    | 1      | 11                | $\dashv$        |          | 1             | 1 |         | 118      |          | П        | $\neg$   |        |        |          |          |        | $\neg$    |
|       | 19       | R        | П        |          | $\dashv$ | $\top$   | 1         | 7          | $\dashv$        |           |  |       | 69       |          | 1                    | 1      | H                 | $\neg$          | 1        | t             | 1 |         | 119      |          |          | $\neg$   |        |        |          |          |        |           |
|       | 20       | R        | $\Box$   | $\top$   |          | $\top$   | 1         | $\dashv$   | $\dashv$        | $\neg$    |  |       | 70       | $\Box$   | 1                    | $\top$ | T                 | $\neg$          | $\top$   | $\top$        | 1 |         | 120      |          | Н        | $\dashv$ |        |        |          |          |        | $\dashv$  |
|       | 21       | R        |          | T        | 1        | $\top$   |           | 7          | _               |           |  |       | 71       |          | $\dashv$             | $\top$ | $\sqcap$          | 寸               |          | 1             | 1 |         | 121      |          |          |          |        |        |          |          |        | $\neg$    |
|       | 22       | R        |          | T        | T        | 十        | 寸         | 7          | 十               |           |  |       | 72       | $\Box$   | $\neg$               | 十      | $\Box$            | 寸               | 十        | 1             | 1 |         | 122      |          | H        |          |        |        |          |          |        | $\neg$    |
|       | 23       | R        | $\Box$   | T        | Ť        | 1        | 7         |            | T               |           |  |       | 73       | Ħ        | $\dashv$             | 十      | П                 | 十               |          | 1             | 1 |         | 123      |          | H        |          |        |        |          | T        |        | $\dashv$  |
|       | 24       | _        |          | 7        | _        | $\dashv$ | 7         | 7          | _               |           |  |       | 74       |          | $\neg$               | 1      | $\Box$            | 一               |          | 1             | 1 |         | 124      |          |          |          |        |        |          |          |        |           |
|       | 25       | $\vdash$ | $\Box$   | $\dashv$ | 7        | $\top$   | 7         | T          | 一               |           |  |       | 75       | $\Box$   | _                    | 1      | $\Box$            | $\neg \uparrow$ | _        | $\top$        |   |         | 125      | П        |          | 寸        |        |        |          | $\Box$   |        | $\neg$    |
|       | 26       |          | $\Box$   | $\dashv$ | $\neg$   | 十        | 寸         | T          | _               | $\neg$    |  |       | 76       | $\vdash$ | $\neg$               | $\top$ | $\Box$            | _               |          | $\top$        |   |         | 126      |          | П        |          |        |        |          |          |        | $\neg$    |
|       | 27       | _        |          | 7        |          | 1        | $\neg$    | _          | $\neg$          | T         |  |       | 77       |          |                      | 十      |                   | $\neg$          | 十        | 1             |   |         | 127      |          | П        | 寸        |        |        |          | Ħ        |        | $\neg$    |
|       | 28       |          | $\Box$   | $\neg$   | _        | 十        | ヿ         | 寸          | _               |           |  |       | 78       |          | $\neg$               |        | T                 | $\neg$          | 丁        | _             | 1 |         | 128      |          |          |          |        |        |          |          |        | $\Box$    |
|       | 29       |          | $\Box$   | 7        | T        | $\top$   | 寸         | T          | 寸               |           |  |       | 79       | $\Box$   | $\neg$               | $\top$ | $\vdash$          | $\neg$          |          | 1             | 1 |         | 129      |          |          |          |        |        |          |          |        |           |
|       | 30       |          |          | 7        | T        | 1        | T         | 1          | 1               |           |  | -     | 80       |          | 1                    |        |                   | _               |          | 1             | 1 |         | 130      |          |          |          |        |        |          |          |        |           |
|       | 31       | Т        | $\Box$   | 十        | T        | 十        | 十         | $\dashv$   | $\neg$          |           |  |       | 81       | $\Box$   | _                    | $\top$ | $\vdash$          | $\dashv$        |          | $\top$        | 1 |         | 131      |          | П        | $\neg$   |        |        |          |          |        | $\neg$    |
|       | 32       |          | $\Box$   | T        | T        | $\top$   | 寸         | 1          | $\dashv$        |           |  |       | 82       |          | $\dashv$             | _      | П                 | $\neg$          | _        | _             | 1 |         | 132      |          | $\Box$   |          |        |        |          |          |        |           |
|       | 33       |          | П        | 十        | T        | $\top$   | 7         | 寸          | 寸               |           |  |       | 83       | $\Box$   | $\neg$               | $\neg$ | $\top$            | $\neg$          |          | $\top$        | 1 |         | 133      |          | П        |          |        |        |          |          |        |           |
|       | 34       |          | $\Box$   | 十        | $\top$   | $\top$   | ┪         | $\dashv$   | 十               | T         |  |       | 84       | $\sqcap$ | $\top$               | $\top$ | $\top$            | $\top$          | 十        | +-            | 1 |         | 134      | <b> </b> |          | $\neg$   |        |        |          | $\neg$   |        |           |
|       | 35       |          | П        | 1        | 1        | $\top$   | 7         | 7          | $\neg$          |           |  |       | 85       | П        | $\dashv$             | T      | П                 | $\neg$          | +        | $\top$        |   |         | 135      |          | П        | $\neg$   |        | $\Box$ |          |          |        | $\neg$    |
|       | 36       |          | П        | 7        | 1        | $\top$   | $\top$    | $\dashv$   | $\neg$          | ᅦ         |  |       | 86       | $\Box$   | $\top$               | 1      | $\Box$            | $\neg \uparrow$ | 十        | 1             | 1 |         | 136      |          | П        | $\neg$   |        |        |          |          |        | $\exists$ |
|       | 37       |          | $\Box$   | $\top$   | $\top$   | $\top$   | $\dashv$  | 7          | $\neg$          |           |  |       | 87       | $\sqcap$ | $\top$               | $\top$ | $\top$            |                 | $\top$   | 1             | 1 |         | 137      |          | $\Box$   | $\neg$   |        |        |          |          |        | $\neg$    |
|       | 38       |          |          | _        |          | $\top$   | $\dashv$  | 7          | $\dashv$        |           |  |       | 88       | П        | $\dashv$             | T      | П                 |                 | $\top$   | $\top$        | 1 |         | 138      | П        | П        | $\neg$   |        |        | $\Box$   | $\dashv$ |        | $\neg$    |
|       | 39       |          | П        | $\neg$   | 7        | 7        | $\dashv$  | 寸          | 一               | ┪         |  |       | 89       | $\Box$   | $\top$               | $\top$ | П                 | $\dashv$        | $\top$   | $\neg \neg$   | 1 |         | 139      |          | П        |          |        | $\neg$ |          | 一        |        | $\neg$    |
|       | 40       |          |          | 丁        | $\top$   | $\dashv$ | 1         | T          | 1               | ┪         |  |       | 90       | $\Box$   |                      | T      |                   | 1               | 1        | $\top$        | 1 |         | 140      |          | П        |          |        | $\Box$ |          | $\neg$   |        | $\neg$    |
|       | 41       |          |          | _        | 1        | $\top$   | $\dashv$  | $\dashv$   | $\neg$          | $\neg$    |  |       | 91       | $\sqcap$ | $\top$               | 1      | П                 | $\dashv$        | $\dashv$ | 1             | 1 |         | 141      |          |          |          |        |        |          |          |        | $\dashv$  |
|       | 42       |          | $\sqcap$ | $\neg$   | T        | ┪        | T         | 7          | $\neg$          | ٦         |  |       | 92       | $\sqcap$ | $\neg$               | T      | $\sqcap$          | $\top$          | $\top$   | $\neg \vdash$ | 1 |         | 142      |          |          | $\Box$   |        |        |          | $\neg$   |        |           |
|       | 43       |          | П        | $\dashv$ | $\top$   | $\top$   | T         | T          | $\dashv$        |           |  |       | 93       | $\Box$   | $\neg$               | T      | T                 | $\neg$          | $\top$   | 1             | 1 |         | 143      | П        | $\sqcap$ |          | $\neg$ |        |          | $\neg$   |        | $\dashv$  |
|       | 44       |          | П        | $\top$   | $\top$   | 1        | $\exists$ | _          | $\neg \uparrow$ | $\neg$    |  |       | 94       | $\Box$   | $\neg$               | T      | $\dagger \lnot$   | $\neg$          | 1        | 1             |   |         | 144      | П        | $\Box$   |          |        |        |          | $\dashv$ |        | $\neg$    |
|       | 45       |          | П        |          | $\neg$   |          | T         |            | $\neg$          | $\neg$    |  |       | 95       | $\Box$   | 1                    | 1      | $\top$            | 寸               | _        | 1             | 1 |         | 145      | П        | П        |          |        |        |          |          |        | $\neg$    |
|       | 46       |          | $\Box$   | 寸        | $\top$   |          | 7         |            | $\top$          | $\exists$ |  |       | 96       | $\Box$   | $\neg \uparrow \neg$ |        | $\top$            | $\top$          | 7        | $\top$        | 1 |         | 146      | П        | П        |          |        |        |          |          |        | $\neg$    |
|       | 47       |          |          | $\neg$   | $\neg$   | $\neg$   | $\exists$ | $\neg$     | 一               | $\neg$    |  |       | 97       | $\Box$   | $\top$               | $\top$ |                   | 7               |          | $\top$        | 1 |         | 147      | П        | П        | $\neg$   |        |        |          |          |        | $\neg$    |
|       | 48       |          |          | $\top$   | 1        | $\top$   | $\neg$    | _          | $\neg \uparrow$ | $\neg$    |  |       | 98       |          |                      | 1      | $\sqcap$          |                 | 丁        | $\top$        | 1 |         | 148      | П        | П        | $\dashv$ | $\neg$ |        |          |          |        | $\neg$    |
|       | 49       |          |          |          |          | 7        | 7         |            |                 | $\exists$ |  |       | 99       | $\Box$   |                      | $\top$ | П                 | $\top$          | 十        | T             | 1 | · · · · | 149      | П        | П        |          |        |        |          | 寸        | $\neg$ | $\neg$    |
|       | 50       |          |          |          | $\Box$   |          | $\exists$ |            |                 |           |  |       | 100      |          |                      | T      |                   | 1               | $\dashv$ | $\top$        | 1 |         | 150      | П        | П        | 一        | T      |        |          | $\neg$   |        | $\neg$    |
|       |          |          | щ.       |          |          |          | _         |            |                 |           |  |       |          |          |                      |        |                   |                 |          |               | 1 |         |          |          | ш        |          |        |        |          |          |        |           |